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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/040,012	10/26/2001	Carlos M. Collazo	020897-000130US	8807
TOWNSEND AND TOWNSEND AND CREW, LLP TWO EMBARCADERO CENTER			EXAMINER	
			BENGZON, GREG C	
EIGHTH FLOO SAN FRANCIS	SCO, CA 94111-3834		ART UNIT PAPER NUMBER 2144	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		01/24/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No	Applicant(s)				
	10/040,012	COLLAZO, CARLOS	3 M.			
Office Action Summar	Y Examiner	Art Unit				
	Greg Bengzon	2144				
The MAILING DATE of this com Period for Reply	,	r sheet with the correspondence addr	ess			
A SHORTENED STATUTORY PERIOD WHICHEVER IS LONGER, FROM THE Extensions of time may be available under the provafter SIX (6) MONTHS from the mailing date of this If NO period for reply is specified above, the maxim Failure to reply within the set or extended period for Any reply received by the Office later than three meanned patent term adjustment. See 37 CFR 1.704	IE MAILING DATE OF THIS Co isions of 37 CFR 1.136(a). In no event, how communication. um statutory period will apply and will expire reply will, by statute, cause the application of onths after the mailing date of this communic	DMMUNICATION. ever, may a reply be timely filed SIX (6) MONTHS from the mailing date of this comm o become ABANDONED, (35 U.S.C. & 133)				
Status	(-)					
1) Responsive to communication(s) filed on 20 November 2006.					
2a) This action is FINAL.	2b)⊠ This action is non-fin	al.				
3) Since this application is in condi			nerits is			
closed in accordance with the pa						
Disposition of Claims						
4) Claim(s) 4 and 5 is/are pending	in the application.					
4a) Of the above claim(s)	is/are withdrawn from consider	ation.				
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>4 and 5</u> is/are rejected.						
7) Claim(s) is/are objected t						
8) Claim(s) are subject to re	striction and/or election require	ment.				
Application Papers						
9)☐ The specification is objected to b	y the Examiner.	•				
10) The drawing(s) filed on is/	are: a)□ accepted or b)□ obj	ected to by the Examiner.				
Applicant may not request that any						
		e drawing(s) is objected to. See 37 CFR	1.121(d).			
11) The oath or declaration is objected						
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a cl	aim for foreign priority under 35	U.S.C. § 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None o			•			
1. Certified copies of the price	rity documents have been rece	ived.				
2. Certified copies of the priority documents have been received in Application No.						
Copies of the certified cop						
application from the Intern	ational Bureau (PCT Rule 17.2	(a)).				
* See the attached detailed Office a	ction for a list of the certified co	pies not received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) 🗆	Interview Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Revie	w (PTO-948)	Paper No(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/ Paper No(s)/Mail Date 2006/120		Notice of Informal Patent Application Other:				
S. Patent and Trademark Office TpDL ₁ 326 ₁ (Rev. 08-06)	Office Action Summary	Part of Paner No /Mail Date 2	20070112			

DETAILED ACTION

This application has been examined. Claims 4-5 are pending.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/20/2006 has been entered.

Priority

This application claims benefits of priority from US Provisional application 60243783, filed October 26, 2000.

The effective date of the subject matter in the claims in this application is October 26, 2000.

Information Disclosure Statement

The information disclosure statements (IDS) submitted on 11/20/2006 are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statements are being considered by the examiner.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hafez et al. (US Patent 6513065), hereinafter referred to as Hafez, in view of Strandberg et al. (US Patent 6647412), hereinafter referred to as Strandberg.

Hafez substantially disclosed the invention as follows.

Hafez disclosed (re. Claim 4) a method for assessing server and network of servers capacity, (Hafez – Column 9 Lines 65) summarized through two integer values representing Local Node Value (LNV) and Composite Node Value (CNV), (Hafez – Column 12 Lines 5-15, Column 15 Lines 45-50) respectively, the method comprising: calculating the LNV of a server as an integer value through a combination of measured counters at the same point in time (Hafez - Column 12 Lines 45-50), the LNV reflecting the capacity of the server to receive work loads;

Hafez does not disclose a method for collecting information about a network's operation comprising using peer-to-peer communication among a plurality of devices in the network to obtain a measure of the network performance. While Hafez disclosed a method for calculating a combination and summarization of node values (Hafez - Figure

8a-8b, Column 12 Lines 60-65), Hafez did not disclose (re. Claim 4) calculating the CNV of a beginning server as an integer value through a combination of the LNVs of a subnetwork of servers that begins with the beginning server, the calculation of the CNV including the LNV of the beginning server, the CNV reflecting the capacity of the subnetwork beginning with the beginning server to collectively receive workloads.

Strandberg disclosed (re. Claim 4) a method for propagating node information through ingress, core, and egress nodes using peer-to-peer communication in a differential network, (Strandberg- Figure 3, Column 1 Lines 55-65, Column 2 Lines 1-10) said node information containing performance parameters such as packet loss, delay rate, queue load, service rate and stability. (Strandberg - Figure 3, Column 3 Lines 1-5). Strandberg disclosed (re. Claim 4) calculating the CNV of a beginning server as an integer value through a combination of the LNVs (Strandberg - Figure 3, Column 3 Lines 1-5) of a subnetwork of servers that begins with the beginning server, the calculation of the CNV including the LNV of the beginning server, the CNV reflecting the capacity of the sub-network beginning with the beginning server to collectively receive workloads. (Strandberg – Column 6 Lines 60-65)

Hafez and Strandberg are analogous art because they present concepts and practices regarding the capture and assessment of network performance

measurements. (See Strandberg Column 4 Lines 1-5, Column 6 Lines 10-65) At the time of the invention it would have been obvious to a person of ordinary skill in the art to combine the teachings regarding peer-to-peer communications by Strandberg into the method of Hafez, such that the data collection components (i.e. agents) are able to exchange information with each other (i.e. other agents) and not just the central monitoring system (i.e. console). The suggested motivation for said combination would have been, as Hafez suggests (Hafez - Abstract), so that performance data may be summarized on several levels, where each summarization level is coarser in granularity than the previous level. It would have been obvious to a person of ordinary skill in the networking art that the data captured by Strandberg on a per-hop basis, not just on an endpoint-to-endpoint basis, would provide an increased level of granularity that Hafez strives to obtain. Furthermore, since Hafez is presenting a network monitoring system that strives to predict network performance for hypothetical scenarios, it would have been obvious to combine Strandberg in order to allow the status information to be available at the ingress node before the traffic enters the network, thereby enhancing the response capabilities to dynamic network conditions (Strandberg - Column 1 Lines 50-55, Column 9 Lines 1-10)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hafez et al. (US Patent 6513065), hereinafter referred to as Hafez, in view of Strandberg et al. (US Patent 6647412), hereinafter referred to as Strandberg further in view of Waclawski (US Patent 6377907).

Hafez-Sandberg substantially disclosed the invention as follows.

Hafez-Sandberg disclosed (re. Claim 5) obtaining a plurality of characteristics or counters at a specific point in time (Hafez – Column 12 Lines 45-50) and combining counters. (Hafez-Column 10 Lines 15-20)

However Hafez-Sandberg did not disclose (re. Claim 5) counters that are combined through correlation matrixes and weighted sums, the correlation matrixes and weighted sums being updated over a period of time to reflect historical changes over the period of time.

Waclawski disclosed (re. Claim 5) counters that are combined through correlation matrixes (Waclawski-Column 8 Lines 60-65) and weighted sums (Column 11 Lines 20-

25), the correlation matrixes and weighted sums being updated over a period of time to reflect historical changes over the period of time.

Hafez, Strandberg, and Waclawski are analogous art because they present concepts and practices regarding the capture and assessment of network performance measurements. At the time of the invention it would have been obvious to a person of ordinary skill in the networking art to combine the teachings of Waclawski into Hafez-Strandberg. The motivation for said combination would have been, as Waclawski disclosed (Waclawski-Column 1 Lines 40), to provide a means for selecting the most significant performance metrics.

Response to Arguments

Applicant's arguments filed 11/20/2006 have been fully considered but they are not persuasive.

The Applicant presents the following argument(s) [in italics]:

Hafez discloses a method for summarization of node values across a time axis, processing individually every data type but not producing a single value based on the combinations of different metrics at a specific point in time. In addition, the summarization methods taught by Hafez do not produce a single value for counters or gauge.

The Examiner respectfully disagree with the Applicant. Hafez disclosed (Column 10 Lines 15-20) a workload as a grouping of performance metrics, and also disclosed calculating metrics based on other metrics (Column 11 Lines 25-30) and displaying a single numerical value resulting from said calculation. Thus Hafez disclosed a metric value based on a combination of different metrics.

Furthermore, where the metrics are captured for real-time monitoring (Column 9 Lines 35), and Hafez disclosed displaying the workload (Column 10 Lines 45) then Hafez disclosed combining metrics at a specific point in time [current interval period].

The Examiner notes that Hafez disclosed computing performance statistics including utilization, which refers to the total amount of resources consumed by all the processes in the host computer.

The Applicant presents the following argument(s) [in italics]:

Hafez does not teach or suggest the use of correlation matrixes and weighted sums to produce the integer values for the same point in time.

The Examiner present prior art by Waclawski which disclosed the use of correlation matrixes reflect performance metrics.

Conclusion

Examiner's Note: Examiner has cited particular columns and line numbers in the references applied to the claims above for the convenience of the applicant.

Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

In the case of amending the claimed invention, Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please refer to the enclosed PTO-892 form.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Greg Bengzon whose telephone number is (571) 272-3944. The examiner can normally be reached on Mon. thru Fri. 8 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Vaughn can be reached on (571)272-3922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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gcb

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